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A procedure for controlled transmission of power of constant time average from a wind power plant with induction generators in super-sync operation into a network with constant parameters requires having the rotor current held constant by a conventional electronic regulator.

The set-point for the rotor excitation is proportional to the mean stator power output which is fed into the network. It is also proportional to the mean value of the total, ie stator plus rotor, power fed into the network. The set-point is adjusted if the abandonment of a defined change region of rotor speed as the result of the change of mean mechanical power as a function of the wind rising should be prevented.

ADVANTAGE - Speed of rotor within a defined change region can be freely adjusted so that torque changes occurring with a stochastic distribution cause a positive or negative acceleration of the rotor